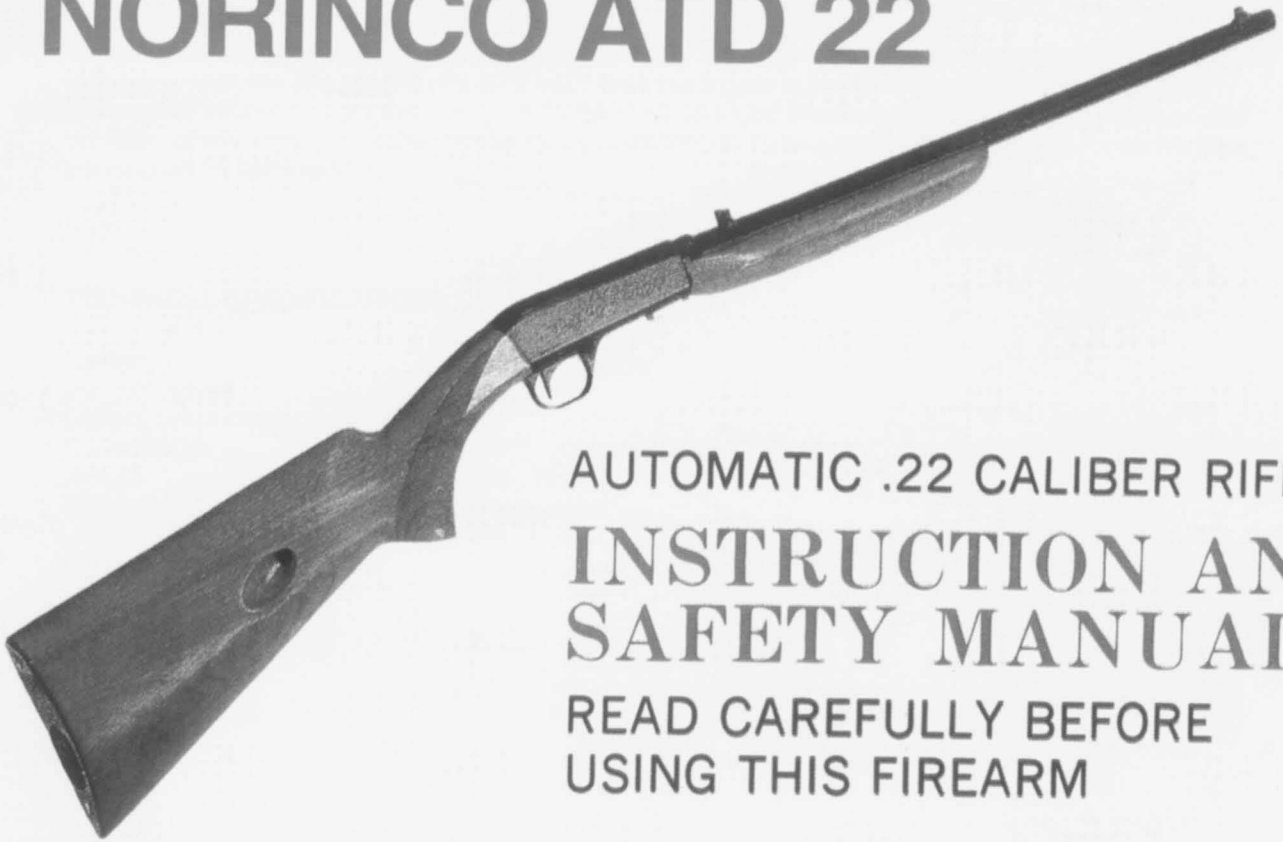
NORINCO ATD 22



AUTOMATIC .22 CALIBER RIFLE

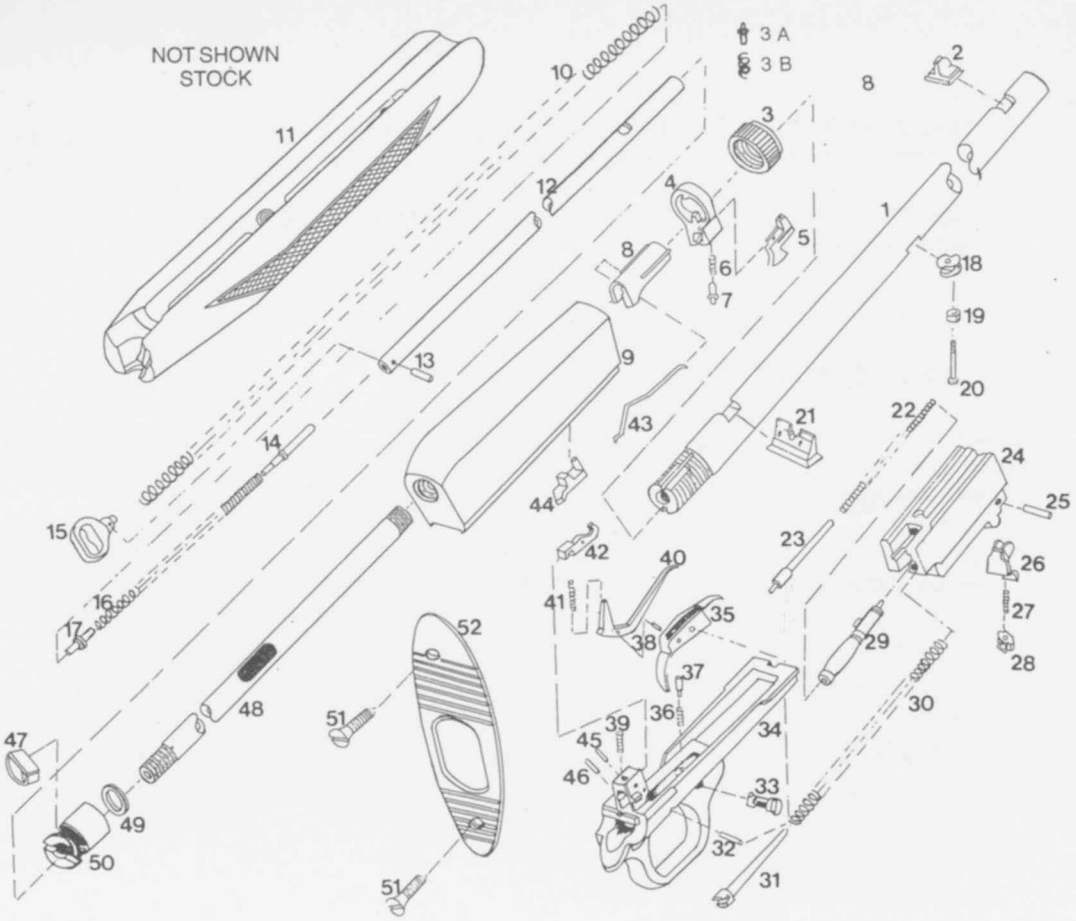
INSTRUCTION AND SAFETY MANUAL

READ CAREFULLY BEFORE USING THIS FIREARM

The Norinco ATD 22 rifle operates semi-automatically. After the first cartridge has been manually loaded in the chamber, the rifle will fire one shot each time the trigger is pulled. The energy from each fired cartridge is utilized to eject the empty cartridge case and load the next cartridge into the chamber until the magazine is empty. The rifle can be easily dismantled into two compact assemblies for convenient transportation and storage.

TECHNICAL SPECIFICATIONS

Caliber	.22 long rifle only
Length, overall	37"
Length, taken down	19.5"
Barrel length	19.5"
Weight	4 lbs., 11 oz.
Magazine capacity	11 cartridges


NOT SHOWN
STOCK
3 A
3 B

PARTS LEGEND

1. Barrel
2. Front sight
3. Barrel adjusting ring
4. Barrel lock ring
5. Barrel lock
6. Barrel lock spring
7. Barrel lock spring plunger
8. Cartridge guide
9. Receiver
10. Magazine spring
11. Forearm
12. Inner magazine tube
13. Magazine handle pin
14. Magazine follower
15. Magazine handle
16. Magazine follower spring
17. Magazine follower stop
18. Forearm retaining stud
19. Forearm escutcheon
20. Forearm screw
21. Rear sight
22. Firing pin spring
23. Firing pin spring guide
24. Breechblock
25. Extractor spring retaining pin
26. Extractor
27. Extractor spring
28. Extractor spring retainer
29. Firing pin
30. Recoil spring
31. Recoil spring guide
32. Trigger pin
33. Safety, cross-bolt
34. Trigger guard
35. Trigger
36. Safety spring
37. Safety spring plunger
38. Disconnector pin
39. Sear spring
40. Disconnector
41. Trigger spring
42. Sear
43. Cartridge guide spring
44. Cartridge stop
45. Sear spring pin
46. Sear pin
47. Magazine tube stop spring
48. Outer magazine tube
49. Nut washer
50. Stock nut
51. Buttplate screw (2)
52. Buttplate

3A. Barrel adjusting ring detent

3B. Barrel adjusting ring detent spring

ASSEMBLY

CAUTION! Before assembling your rifle, make sure there are NO OBSTRUCTIONS in the barrel. Wipe away all traces of grease from the chamber and bore of the barrel.

NOTE: The location of the rifle's parts are described here as they are seen to the shooter holding the rifle in normal firing position. Thus, the muzzle is forward, the buttstock is rearward, the trigger is underneath, and the sights are on top or up. The breechblock with its integral finger piece, and the barrel lock, are on the bottom or down (Fig. 1).

Fig. 1

To assemble the barrel to the receiver, hold the barrel by the forestock, with the left hand, with the sights up. Hold the receiver RIGHT SIDE UP in the right hand (Fig. 2). Insert the barrel into the receiver as far as it will go. Turn the receiver clockwise one-quarter turn until the breechblock snaps forward. Lock the barrel in place by drawing the barrel lock to its fully rearward position.

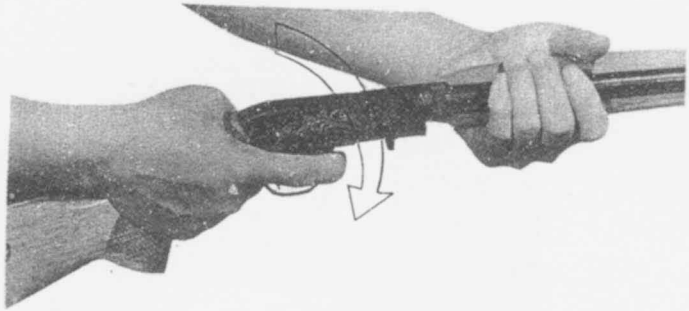


Fig. 2

DISASSEMBLY

FIRST MAKE SURE THE RIFLE IS UNLOADED!

Holding the rifle upside down with the muzzle pointed in a safe direction, push the barrel lock to its fully forward position. Draw back the breechblock 1/4 inch or more, (Fig. 3) and hold with the thumb of the right hand. Give the barrel a one-quarter turn clockwise and separate the two pieces.

CAUTION! Be sure to draw the breechblock rearward before attempting to turn the barrel! Otherwise damage to the extractor might result.

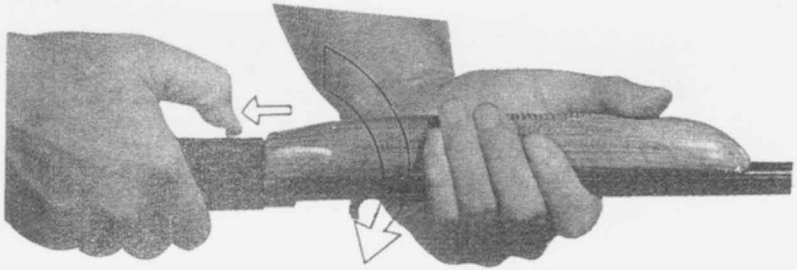


Fig.3

USE OF THE SAFETY

A push button type safety is conveniently located in the forward part of the trigger guard. When the rifle is on safe, the large head of the safety (on the right side of the trigger guard, Fig. 4) protrudes from the trigger guard. When the large head of the safety is pushed in (from right to left) the safety is "OFF", and the rifle is ready to fire. To return the safety to the "ON" position, push the small end of the safety button from left to right.

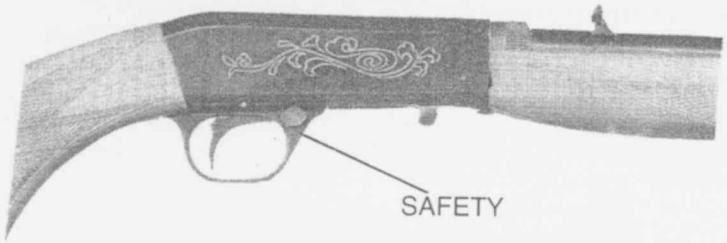


Fig.4

The safety can be reversed by a gunsmith for the convenience of a left-handed shooter. In such event, operation of the safety will be exactly the opposite of that described above. The large head of the safety button will then be located on the left side of the trigger guard.

AMMUNITION

The ATD 22 rifle uses standard and high velocity .22 LONG RIFLE CARTRIDGES. Be sure to use only this type of ammunition and no other. The rifle will fire (but will not function automatically) with .22 Long and Short cartridges, or with .22 Long Rifle Shotshell cartridges; jamming of the mechanism may result.

LOADING THE MAGAZINE

Turn the magazine finger piece located in the butt plate one-quarter turn and pull magazine tube straight back until it stops. Drop the cartridges into opening in the side of the stock, bullet forward (Fig. 5). The magazine holds 11 cartridges. Push the magazine tube home and turn approximately one-quarter turn either way to lock. If the magazine tube does not push in freely, turn it alternately right and left and at the same time push forward. The magazine tube will not lock unless completely forward.

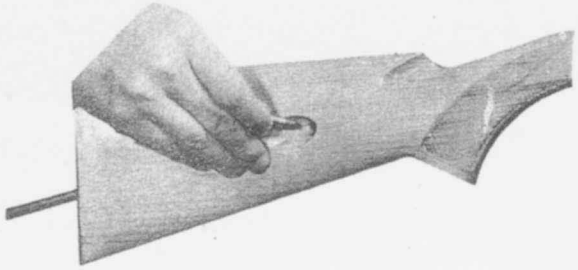


Fig. 5

LOADING THE CHAMBER

After loading the magazine, draw back the breechblock as far as it will go. Then smartly release the finger piece, allowing it to snap forward of its own accord. This procedure feeds the first cartridge into the chamber; the gun is now ready to fire. Subsequent feeding and ejection operations are performed automatically until the rifle is empty.

UNLOADING WITHOUT FIRING

To unload unfired cartridges from the rifle, POINT THE MUZZLE IN A SAFE DIRECTION and move the breechblock back and forth, individually chambering and ejecting all the cartridges in the magazine (Fig. 6). As a safety precaution, always work the breechblock several times after the last unfired cartridge has been ejected. Then hold the breechblock fully rearward and LOOK in the ejection port to make certain the chamber is empty. When the magazine is empty, the cartridge follower will be visible in the mouth of the magazine tube next to the chamber. If the magazine follower is not visible, it is possible that a cartridge is lodged in the magazine tube. DO NOT ASSUME THE RIFLE IS FULLY UNLOADED UNTIL THE MAGAZINE FOLLOWER IS VISIBLE.

Fig. 6

SIGHTS

The ATD 22 rifle is equipped with a rear sight adjustable for any distance appropriate for the .22 caliber cartridge. To adjust the sight, raise it in position and with a dime coin or other similarly available tool, loosen the locking screw on the face of the sight. Then using the finger piece provided on the side, raise or lower the notch to zero the rifle at the desired distance, then lock it in place again. For a greater distance the notch must be raised. Since the trajectory of a bullet is almost flat to 25 yards, no adjustment is generally necessary for lesser distances. Bullet trajectory will vary with different types of ammunition, so it is advisable that the user test shoot his rifle with the particular ammunition he intends to employ.

Lateral adjustment should be correct at the time you purchase your gun. However, if for your sighting procedure a slight change appears necessary, a lateral adjustment may be accomplished by moving either the front or rear sight to the right or left. Each of these sights is secured to the barrel in dovetail slots. By tapping the sight at its base, it can be moved in the direction desired. A block of wood or comparable nonmetallic material should bear against the sight during tapping to avoid marring the finish. In making the lateral adjustment, keep this simple rule in mind: the rear sight should be moved the same direction you wish the point of bullet impact to move; the front sight should be moved in the opposite direction from that you wish the point of bullet impact to move.

To give your rifle the proper care, further disassembly is occasionally important. It is very easy and may be accomplished without the aid of tools:

1. After making sure the rifle is unloaded and removing the barrel, push the trigger guard (Fig. 7) forward about ¾ of an inch. Then pull the rear end of the trigger guard out of the receiver about 1 inch and draw the mechanism to the rear and out. This procedure removes the entire trigger assembly and breechblock and is ordinarily sufficient disassembly for normal cleaning.

2. It requires some skill and practice to disassemble the rifle further but should the need arise proceed as follows: Release the firing pin by pulling the trigger. Draw the breechblock back out ¼ of an inch, then lift up on the forward end until the finger piece clears the trigger guard plate (Fig. 8). Allow the breechblock to travel forward slowly, holding the recoil spring between thumb and fingers to prevent its escape.

3. The procedure thus far permits the removal from the breechblock of the recoil spring, recoil spring guide, the firing pin, firing pin spring and firing pin spring guide.

4. To withdraw the extractor, remove the extractor spring retaining pin after which the extractor spring retainer, extractor spring, and extractor can be taken from the breechblock. (Fig. 9). It is desirable to occasionally remove carbon and residue that forms in the slot underneath the extractor. A round toothpick or similar wooden instrument is suitable for this purpose, and will not scratch the metal.

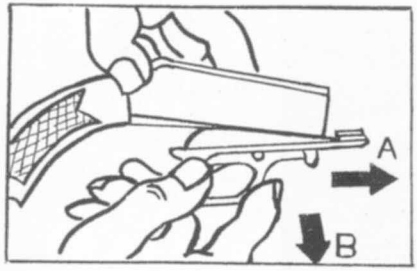


Fig. 7

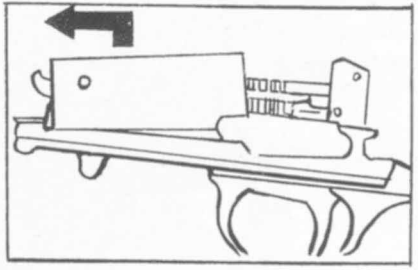


Fig. 8

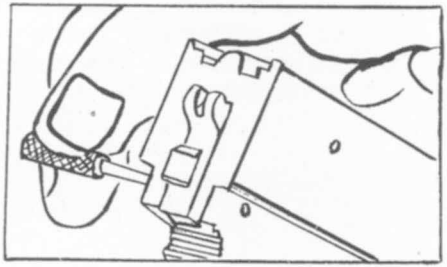


Fig. 9

ASSEMBLING THE MECHANISM

1. Replace the extractor, extractor spring, and extractor spring retainer and insert the extractor spring retaining pin.

2. Replace the firing pin, firing pin spring, and firing pin spring guide in the breechblock.

3. Replace the breechblock assembly in the plate of the trigger guard.

4. To replace the recoil spring and recoil spring guide in the breechblock, proceed as follows: Holding the trigger guard and breechblock assembly in the left hand with the top side up and the rear of the trigger guard away from you (Fig. 10) insert the recoil spring into the recoil spring hole of the breechblock. Place the index finger of the right hand over the end of the recoil spring guide, at the same time holding the

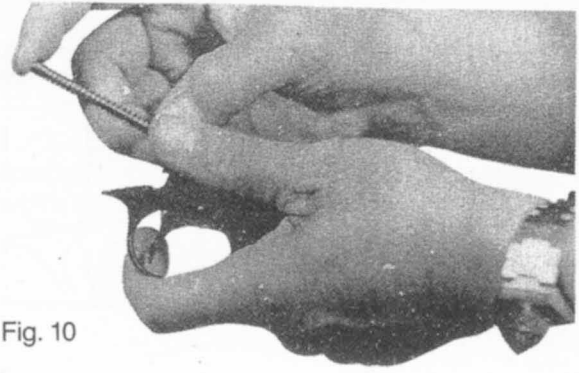


Fig. 10

recoil spring between the thumb and finger of the left hand. Then compress the recoil spring guide and, at the same time, feed both spring and guide into the breechblock until the end of the recoil spring guide can be released against its retaining lug on the trigger guard. This operation requires some practice to be accomplished easily. CAUTION: WEAR SAFETY GLASSES TO PREVENT EYE INJURY IN CASE ANY PART UNDER SPRING TENSION ESCAPES FROM YOUR GRASP.

5. To replace the trigger guard and breechblock assembly in the receiver, place the front end of the breechblock in the receiver; push the trigger guard about ¾ of an inch forward; press the rear of the trigger guard into position and slide rearward into place. Should the trigger guard fail to slip into position easily, draw the breechblock rearward and at the same time press down lightly on the trigger guard.

CLEANING AND OILING

Clean the barrel after shooting. Inserting the cleaning rod at the chamber end of the barrel is the more desirable method and prevents undue wear of the rifling at the muzzle. After the powder residue has been removed, give the bore of the barrel a light protective coat of a good quality gun oil. See that the breechblock works smoothly. It should be removed and cleaned occasionally. A brush or sharpened piece of wood can be utilized to scrape away dirt and grease from the grooves on the top of the breechblock.

The face of the breechblock and the opening of the magazine into the receiver should also be kept free from excess residue. All the parts of the breechblock should then be well oiled, although surplus should be wiped away with a clean rag. If, after long use, the extractor begins to stick, it should be removed in order to clean away dirt or grease that has collected behind it. The cartridge guide should be oiled but no excessively and a few drops should be put occasionally in the magazine tube. It is important to keep the locking threads of the barrel and receiver clean.

ADJUSTING THE BARREL

If, after frequent disassembly, the barrel, develops discernible looseness when mounted to the receiver, an adjustment should be made. Remove the forearm by unscrewing the forearm screw. Push the barrel lock rearward far enough to enable the tooth on the barrel lock to clear the notches on the barrel adjustin

ring (Fig. 11). Turn the barrel adjusting ring to the left one or two notches (counter clockwise when the muzzle of the barrel is pointing away from you). Push the barrel lock forward in place so that its tooth locks the barrel adjusting ring. Assemble the barrel and ascertain whether any looseness remains; if so, repeat the operation until a very snug barrel/receiver fit is obtained. A TIGHT FIT IS VERY IMPORTANT FOR GOOD ACCURACY.

If, after adjustment, the barrel lock will not snap into its rearmost position (engaging the receiver), the adjustment is too tight and should be loosened one notch at a time until the barrel lock works.

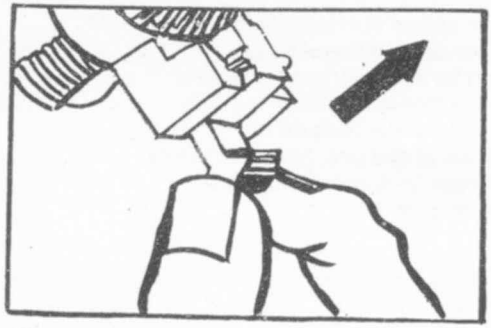


Fig. 11

WARRANTY STATEMENT

Due to the proliferation of statutory requirements applicable to consumer warranties imposed by federal and many state laws, no express warranty, either "full" or "limited", is offered with this product. Certain implied warranties exist under state law with respect to the sale of consumer goods: because the extent and interpretation of these implied warranties very widely from state to state, you should refer to your state statutes.

We wish nonetheless to assure our customers of our continued interest in their satisfaction with our products. This pistol will be serviced, at no charge to the customer, for any problem which we, in our sole discretion, find is due to defective material of workmanship, for a period of one year from the date of first retail purchase. Please be sure to retain your sales slip as proof of purchase date.

WARNING

READ THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL CAREFULLY BEFORE USING THIS FIREARM

IMPORTANT — DO NOT DISCARD

KEEP THIS MANUAL WITH YOUR FIREARM

UPON CHANGE OF OWNERSHIP TRANSFER
THIS MANUAL WITH THE FIREARM

CHINANORTH INDUSTRIES CORPORATION GUANGZHOU BRANCH
Address: 376, Huan Shi Dong Road Guangzhou, China.
Tel: 7765787 7775442 7778959 7753307
Telex: 44211 CNICG CN
Cable: 1056